## What is claimed is:

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- 1. An expanded-graphite sheet with a thermal conductivity of 350 W/(m·K) or more in a direction parallel to the surface.
- 2. The expanded-graphite sheet of claim 1 with an arithmetic mean surface roughness of less than  $5\mu m$ .
- 3. The expanded-graphite sheet of claim 1 wherein the difference between the highest and lowest values of local thermal conductivities at various spots on the expanded-graphite sheet is 10% or less of the overall mean thermal conductivity thereof.
  - 4. The expanded-graphite sheet of claim 2 wherein the difference between the highest and lowest values of local thermal conductivities at various spots on the expanded-graphite sheet is 10% or less of the overall mean thermal conductivity thereof.
  - 5. The expanded-graphite sheet of claim 1 having an electromagnetic-wave-shielding effect of  $60dB\mu V/m$  or more in the frequency range of 100-800 MHz.
- 20 6. The expanded-graphite sheet of claim 2 having an electromagnetic-wave-shielding effect of  $60 dB \mu V/m$  or more in the frequency range of 100-800 MHz.
  - 7. The expanded-graphite sheet of claim 3 having an electromagnetic-wave-shielding effect of  $60 dB \mu V/m$  or more in the frequency range of 100-800 MHz.
  - 8. The expanded-graphite sheet of claim 4 having an electromagnetic-wave-shielding effect of  $60 dB \mu V/m$  or more in the frequency range of 100-800 MHz.
- 9. The expanded-graphite sheet of claim 1 with a total impurity content of 10 ppm or less.

- 10. The expanded-graphite sheet of claim 2 with a total impurity content of 10 ppm or less.
- The expanded-graphite sheet of claim 3 with a total impurity content of 10 ppm or less.
  - 12. The expanded-graphite sheet of claim 4 with a total impurity content of 10 ppm or less.
- 13. The expanded-graphite sheet of claim 1 with a bulk density of 1.6 Mg/m<sup>3</sup> or more.
  - 14. The expanded-graphite sheet of claim 2 with a bulk density of 1.6 Mg/m<sup>3</sup> or more.
  - 15. The expanded-graphite sheet of claim 3 with a bulk density of 1.6 Mg/m<sup>3</sup> or more.
- 16. The expanded-graphite sheet of claim 4 with a bulk density of 1.6 Mg/m<sup>3</sup> or more.

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